

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032718\
 Data File : BF103974.D
 Acq On : 27 Mar 2018 17:17
 Operator : JU/SJ
 Sample : J2047-01RE 2X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 C1-CARVER-HALL-RCARE

Manual Integrations
 APPROVED

Sohil
 3/28/2018 4:54:12 PM

Quant Time: Mar 28 04:52:19 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF031518.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 23 13:26:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	151471	20.00	ng	0.00
21) Naphthalene-d8	8.25	136	606286	20.00	ng	0.00
38) Acenaphthene-d10	10.01	164	272192	20.00	ng	-0.01
63) Phenanthrene-d10	11.50	188	441211	20.00	ng	0.00
75) Chrysene-d12	14.16	240	287773	20.00	ng	-0.01
86) Perylene-d12	15.70	264	272064	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.61	112	55850	5.61	ng	0.02
7) Phenol-d6	6.60	99	269626	22.13	ng	0.00
23) Nitrobenzene-d5	7.53	82	195521	22.49	ng	-0.01
41) 2,4,6-Tribromophenol	0.00	330	0	0.00	ng	
44) 2-Fluorobiphenyl	9.32	172	412382	24.17	ng	-0.01
78) Terphenyl-d14	13.09	244	330543	26.66	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.27	128	102232	3.338	ng	99
51) Acenaphthene	10.05	154	99235	5.979	ng	99
54) Dibenzofuran	10.22	168	63361	2.673	ng	99
57) Fluorene	10.56	166	76985	4.185	ng	99
70) Phenanthrene	11.53	178	704706	29.198	ng	99
71) Anthracene	11.58	178	213862	8.724	ng	98
72) Carbazole	11.73	167	116227	4.878	ng	100
73) Di-n-butylphthalate	12.05	149	60356	2.111	ng	99
74) Fluoranthene	12.73	202	779233	31.339	ng	97
77) Pyrene	12.96	202	642069	30.381	ng	99
79) Butylbenzylphthalate	13.56	149	108352	11.572	ng	96
80) Benzo(a)anthracene	14.14	228	323646	17.767	ng	98
82) Chrysene	14.18	228	276146	15.903	ng	96
83) Bis(2-ethylhexyl)phthalate	14.11	149	312500	23.362	ng	100
85) Indeno(1,2,3-cd)pyrene	17.28	276	123408	8.138	ng	# 92
87) Benzo(b)fluoranthene	15.24	252	317893m	18.495	ng	
88) Benzo(k)fluoranthene	15.27	252	124485m	7.534	ng	
89) Benzo(a)pyrene	15.63	252	223752	14.352	ng	96
90) Dibenzo(a,h)anthracene	17.29	278	32050	2.374	ng	# 89
91) Benzo(a,h,i)perylene	17.76	276	106159	8.084	ng	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

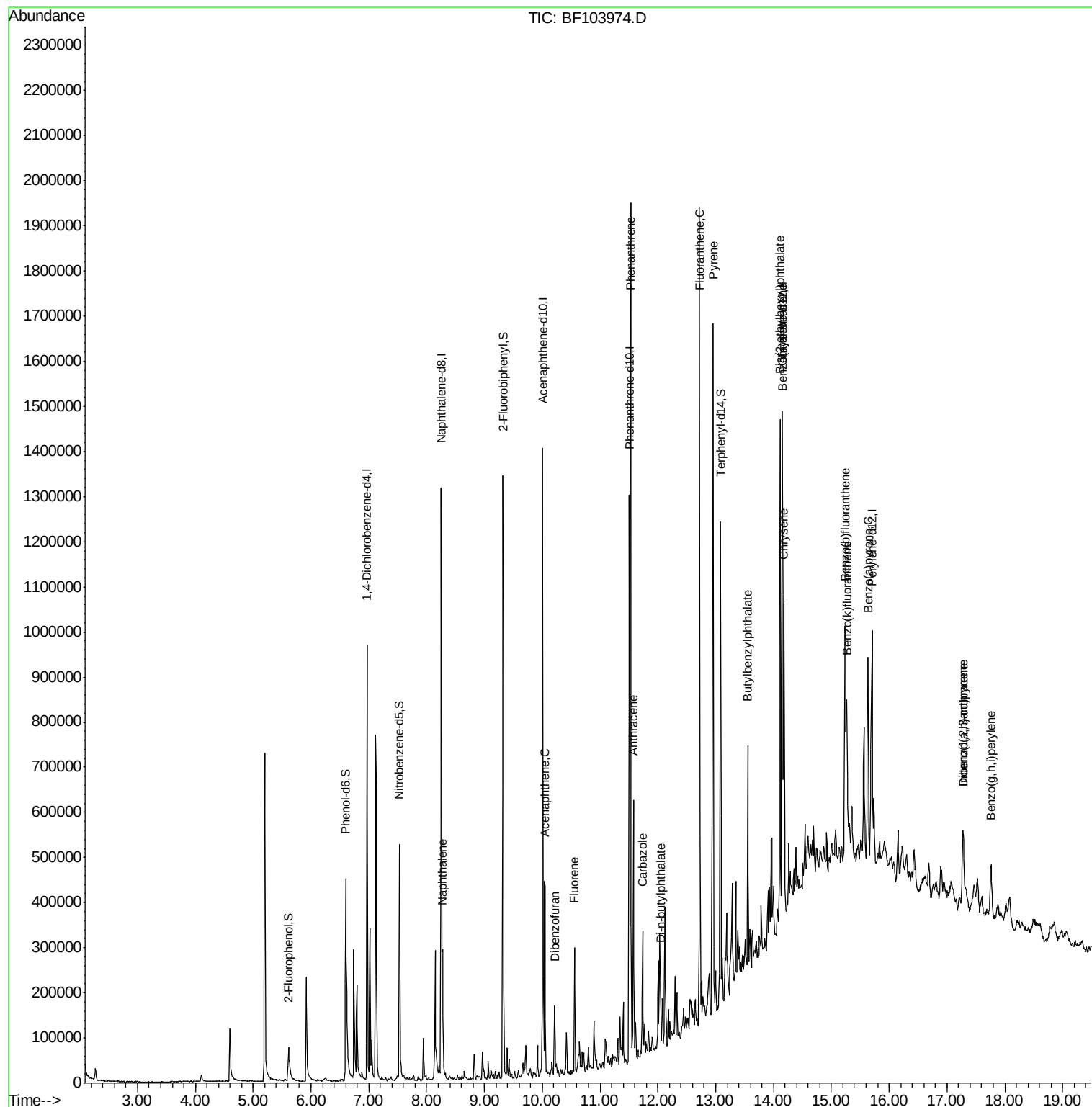
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032718\
Data File : BF103974.D
Acq On : 27 Mar 2018 17:17
Operator : JU/SJ
Sample : J2047-01RE 2X
Misc :
ALS Vial : 6 Sample Multiplier: 1

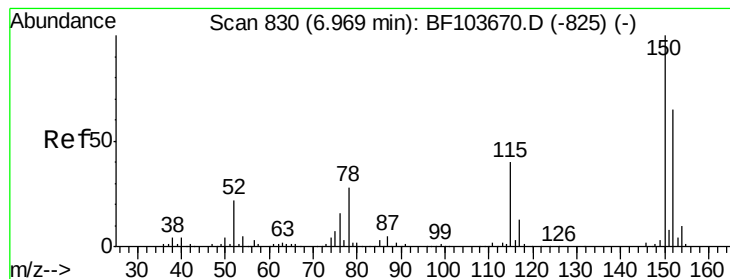
Instrument :
BNA_F
ClientSampleId :
C1-CARVER-HALL-RCARE

Manual Integrations
APPROVED

Sohil
3/28/2018 4:54:12 PM

Quant Time: Mar 28 04:52:19 2018
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Mar 23 13:26:17 2018
Response via : Initial Calibration





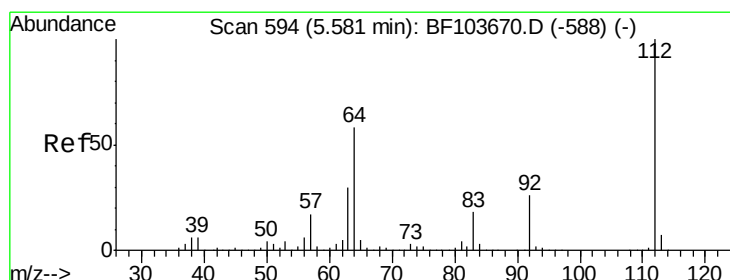
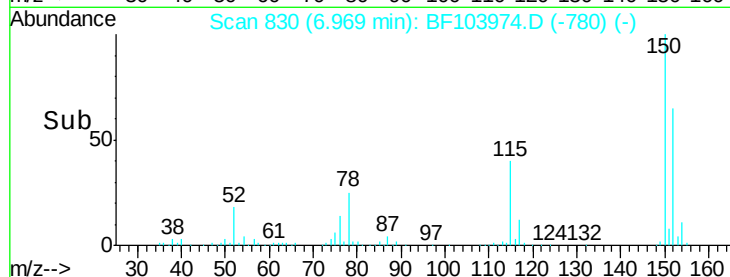
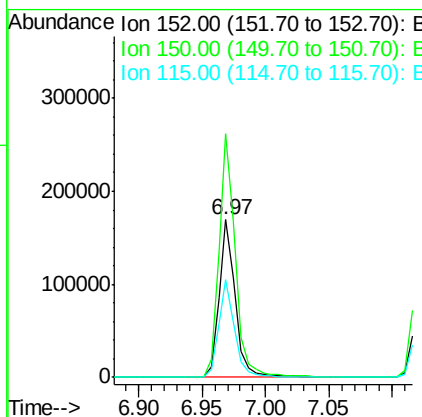
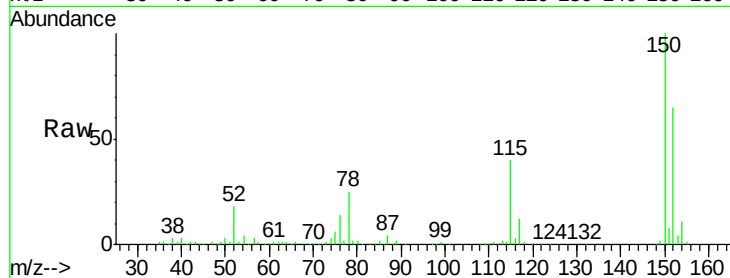
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.97 min Scan# 830
 Delta R.T. -0.01 min
 Lab File: BF103974.D
 Acq: 27 Mar 2018 17:17

Instrument :
 BNA_F
 ClientSampleId :
 C1-CARVER-HALL-RCARE

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.3	124.6	186.8
115	62.2	50.1	75.1

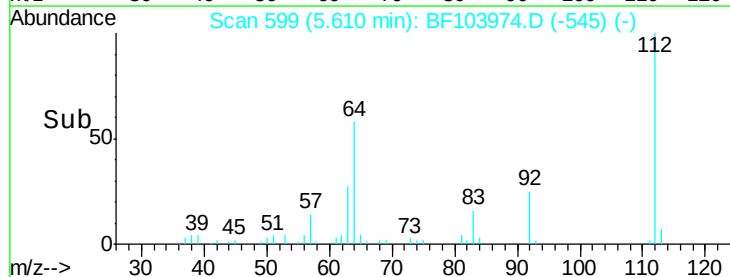
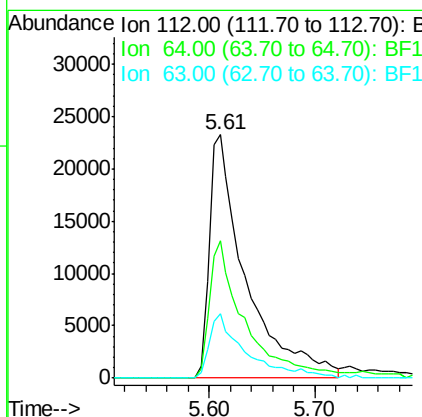
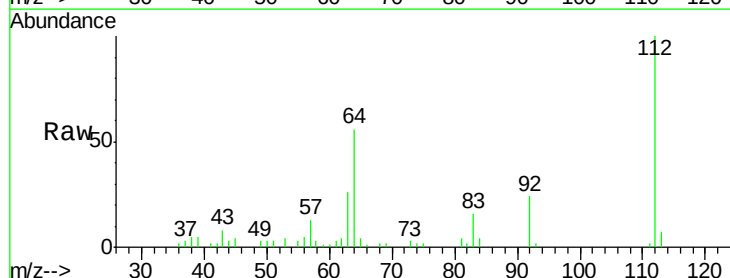
Manual Integrations
 APPROVED

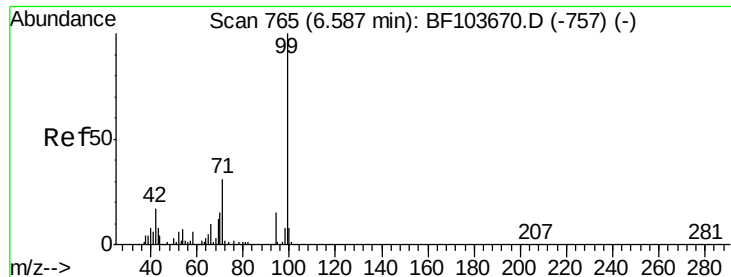
Sohil
 3/28/2018 4:54:12 PM



#5
 2-Fluorophenol
 Concen: 5.608 ng
 RT: 5.61 min Scan# 599
 Delta R.T. 0.02 min
 Lab File: BF103974.D
 Acq: 27 Mar 2018 17:17

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.4	47.9	71.9
63	26.5	23.7	35.5





#7

Phenol-d6

Concen: 22.130 ng

RT: 6.60 min Scan# 767

Delta R.T. -0.00 min

Lab File: BF103974.D

Acq: 27 Mar 2018 17:17

Instrument :

BNA_F

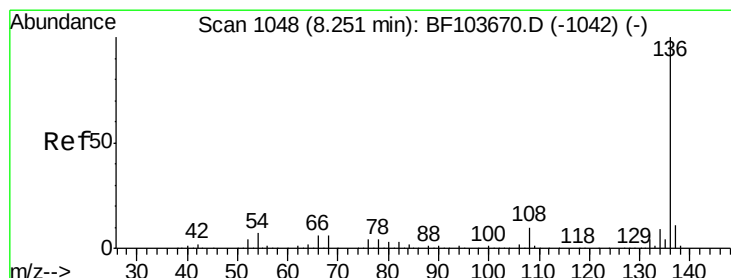
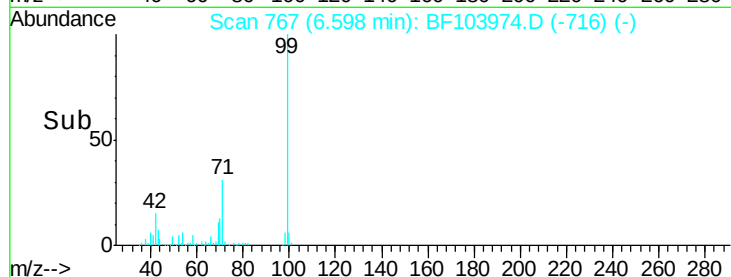
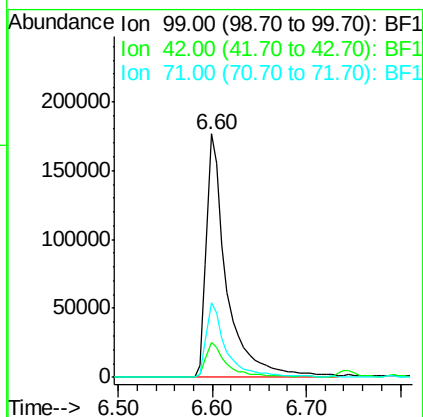
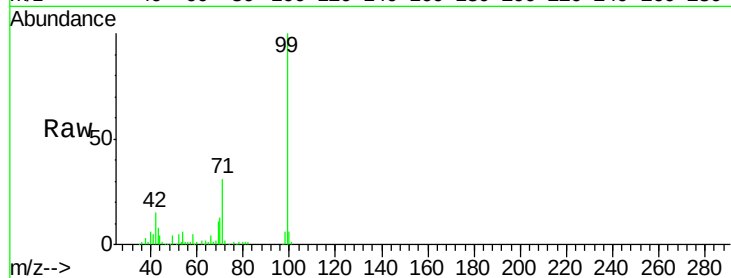
ClientSampleId :

C1-CARVER-HALL-RCARE

Tot Ion:	99	Resp:	269626
Ion	Ratio	Lower	Upper
99	100		
42	14.6	14.5	21.7
71	30.6	25.4	38.0

Manual Integrations
APPROVED

Sohil
3/28/2018 4:54:12 PM



#21

Naphthalene-d8

Concen: 20.000 ng

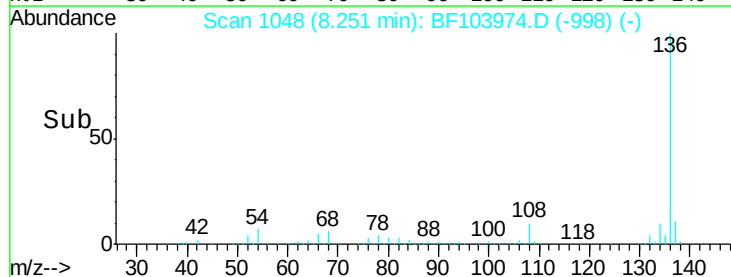
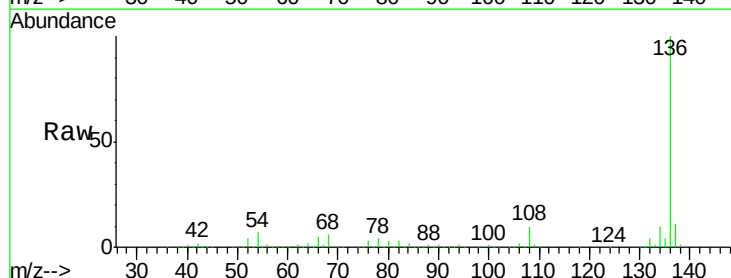
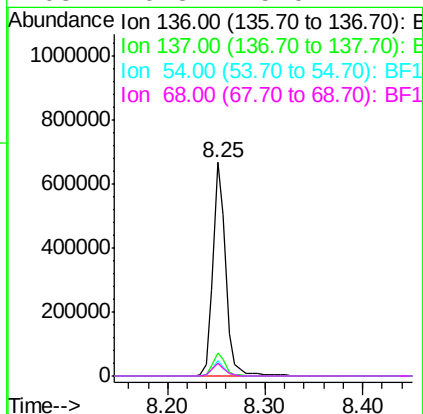
RT: 8.25 min Scan# 1048

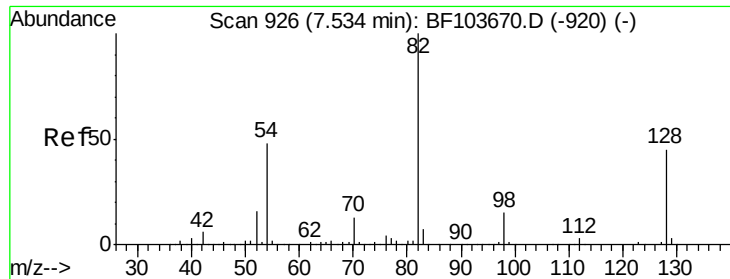
Delta R.T. -0.01 min

Lab File: BF103974.D

Acq: 27 Mar 2018 17:17

Tgt Ion:	136	Resp:	606286
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.9	13.3
54	7.0	6.6	9.8
68	6.3	5.0	7.4





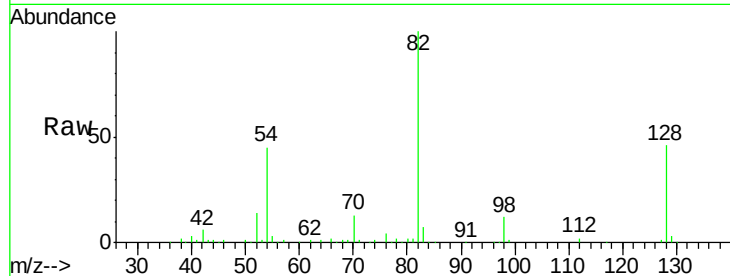
#23
Nitrobenzene-d5
Concen: 22.489 ng
RT: 7.53 min Scan# 925
Delta R.T. -0.01 min
Lab File: BF103974.D
Acq: 27 Mar 2018 17:17

Instrument :
BNA_F
ClientSampleId :
C1-CARVER-HALL-RCARE

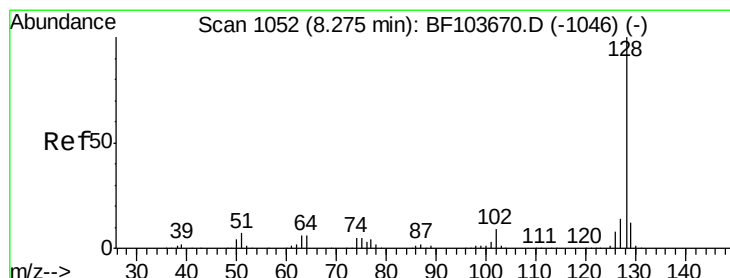
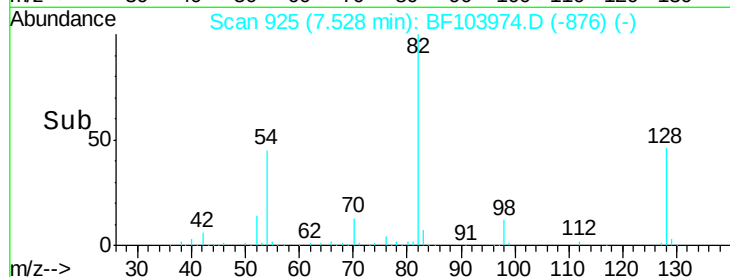
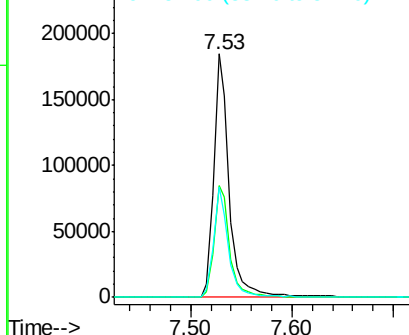
Tot Ion	Ratio	Resp	Lower	Upper
82	100	195521		
128	45.9	36.1	54.1	
54	45.3	41.4	62.2	

Manual Integrations
APPROVED

Sohil
3/28/2018 4:54:12 PM

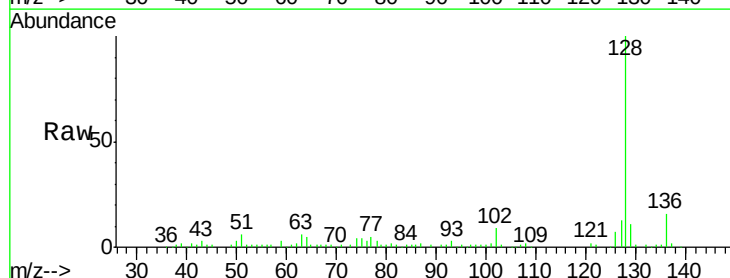


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

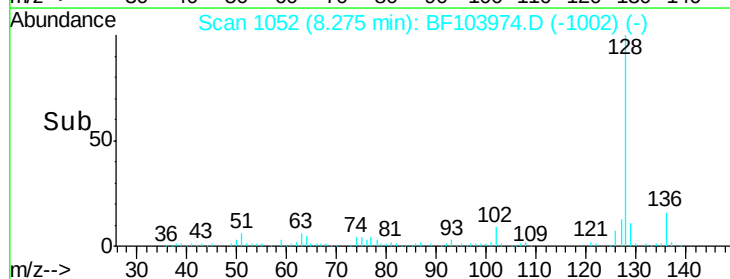
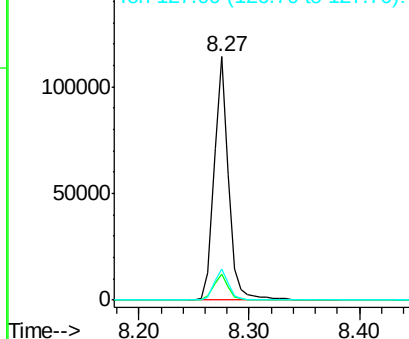


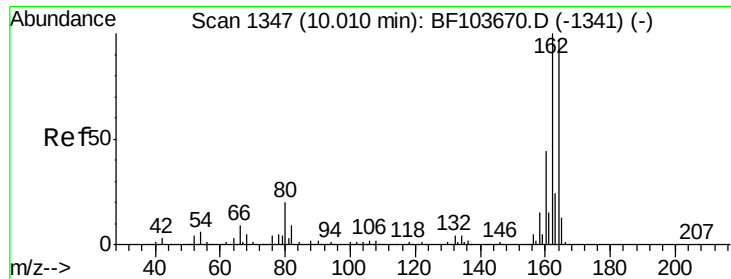
#31
Naphthalene
Concen: 3.338 ng
RT: 8.27 min Scan# 1052
Delta R.T. -0.01 min
Lab File: BF103974.D
Acq: 27 Mar 2018 17:17

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	102232		
129	10.8	8.8	13.2	
127	12.9	10.9	16.3	



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.01 min Scan# 1347

Delta R.T. -0.01 min

Lab File: BF103974.D

Acq: 27 Mar 2018 17:17

Instrument :

BNA_F

ClientSampleId :

C1-CARVER-HALL-RCARE

Tot Ion:164 Resp: 272192

Ion Ratio Lower Upper

164 100

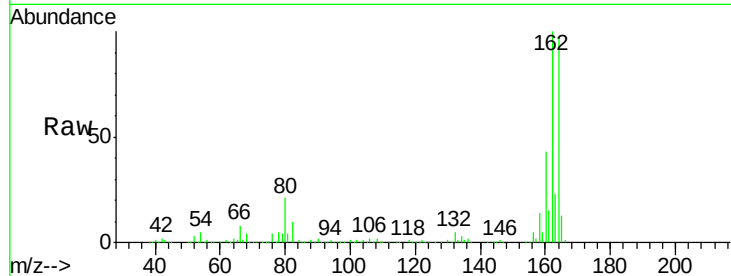
162 103.4 86.1 129.1

160 45.0 38.3 57.5

Manual Integrations
APPROVED

Sohil

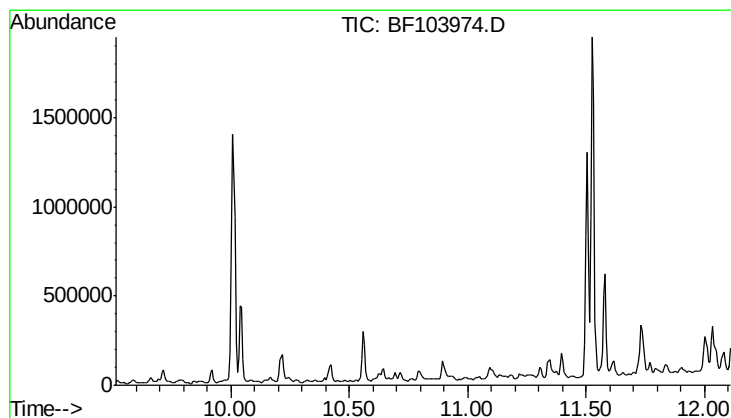
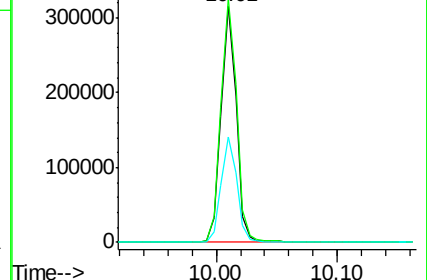
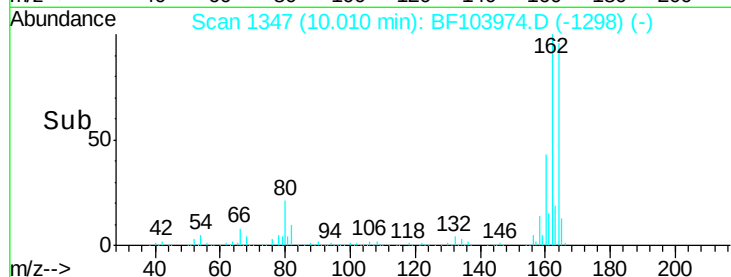
3/28/2018 4:54:12 PM



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 0.000 ng

Expected RT: 10.81 min

Lab File: BF103974.D

Acq: 27 Mar 2018 17:17

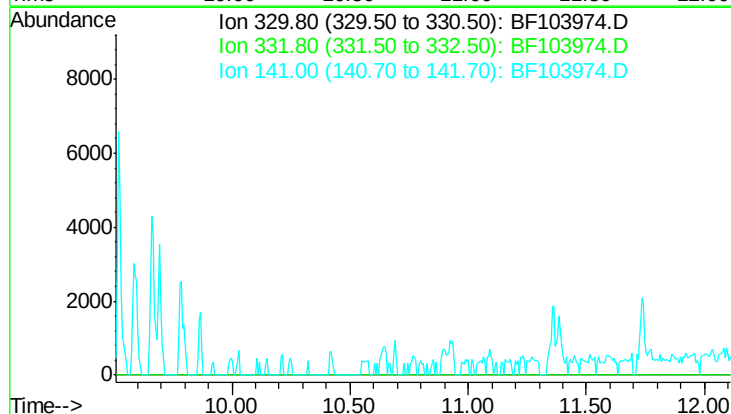
Tgt Ion: 330

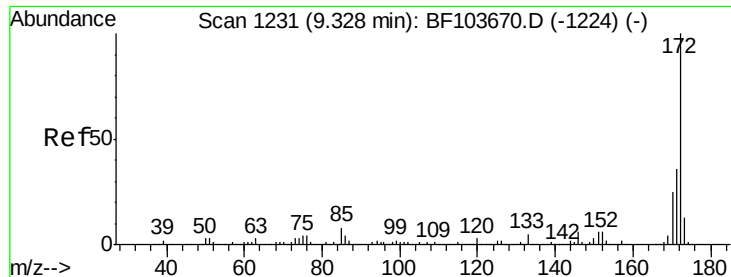
Sig Exp Ratio

330 100

332 96.3

141 37.4





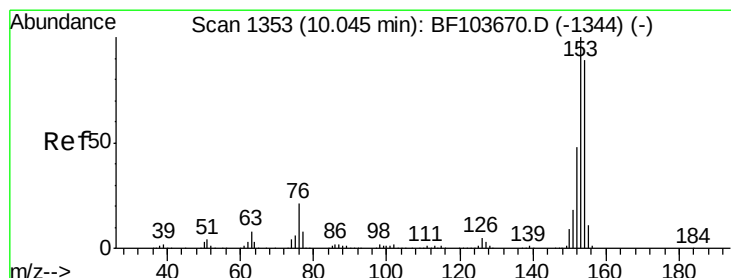
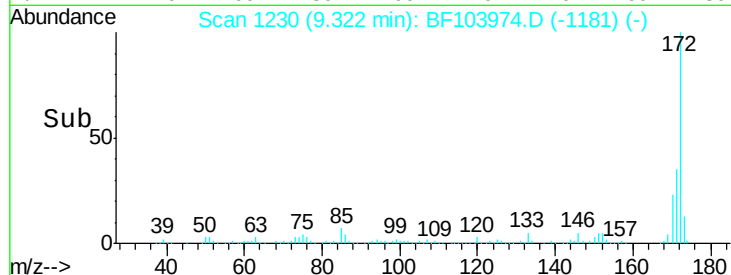
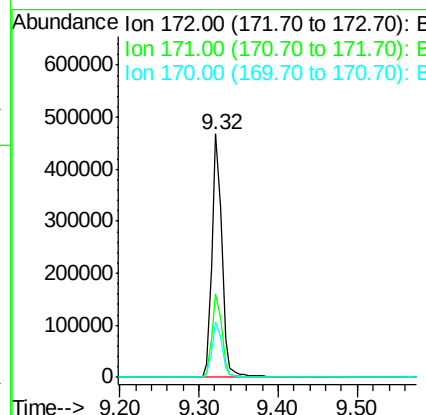
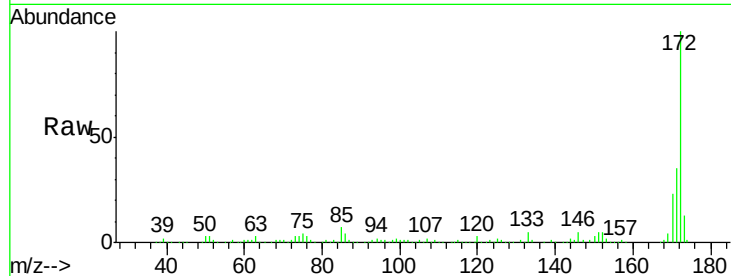
#44
2-Fluorobiphenyl
Concen: 24.167 ng
RT: 9.32 min Scan# 1230
Delta R.T. -0.01 min
Lab File: BF103974.D
Acq: 27 Mar 2018 17:17

Instrument :
BNA_F
ClientSampleId :
C1-CARVER-HALL-RCARE

Tot Ion	Ratio	Lower	Upper
172	100		
171	34.6	29.7	44.5
170	22.9	19.6	29.4

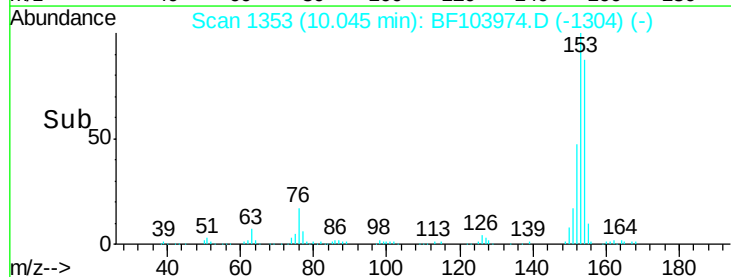
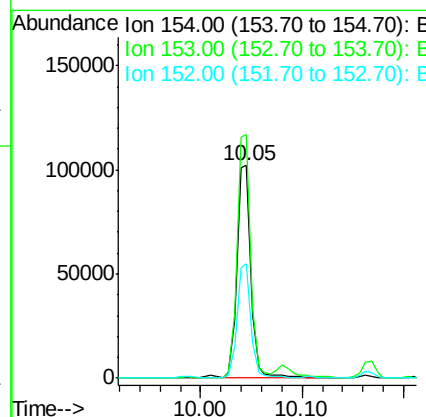
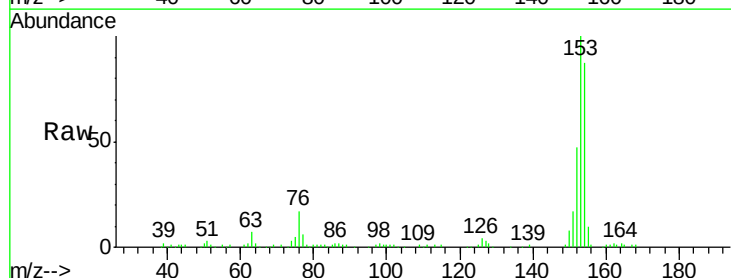
Manual Integrations
APPROVED

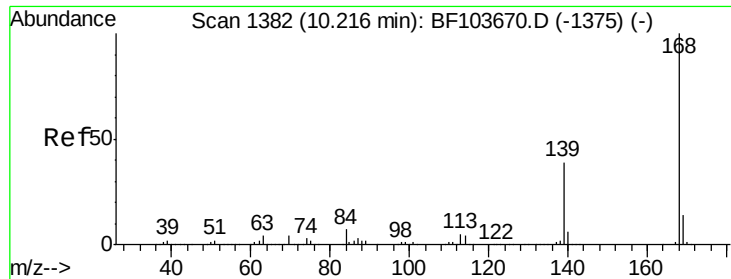
Sohil
3/28/2018 4:54:12 PM



#51
Acenaphthene
Concen: 5.979 ng
RT: 10.05 min Scan# 1353
Delta R.T. -0.01 min
Lab File: BF103974.D
Acq: 27 Mar 2018 17:17

Tgt Ion	Ratio	Lower	Upper
154	100		
153	114.7	91.2	136.8
152	54.1	43.8	65.8





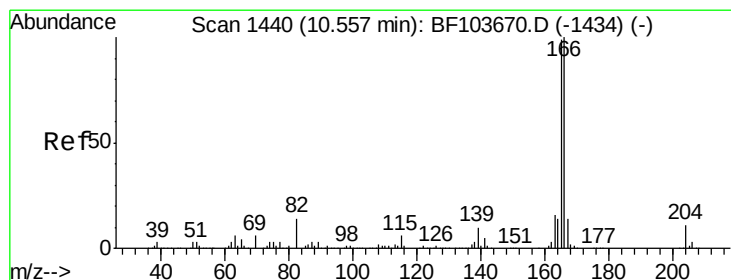
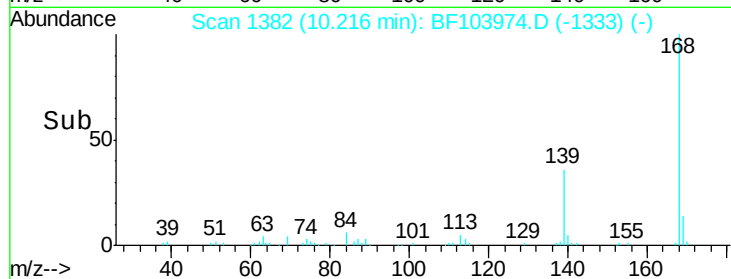
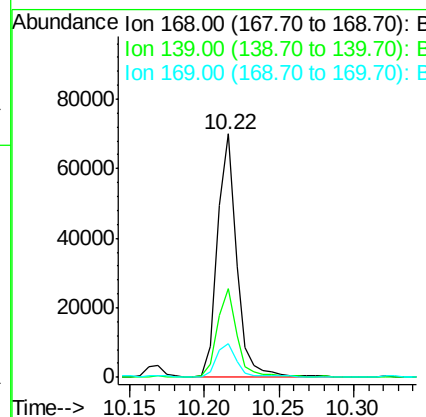
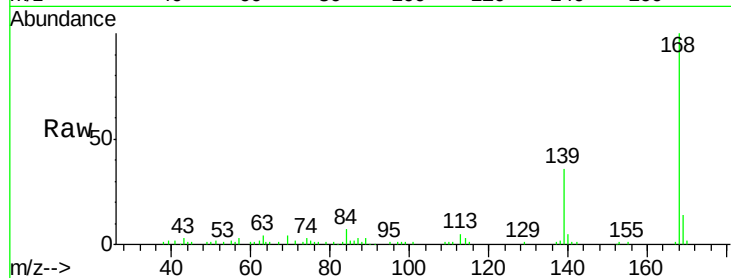
#54
Dibenzenofuran
Concen: 2.673 ng
RT: 10.22 min Scan# 1382
Delta R.T. -0.01 min
Lab File: BF103974.D
Acq: 27 Mar 2018 17:17

Instrument :
BNA_F
ClientSampleId :
C1-CARVER-HALL-RCARE

Tot Ion	Ratio	Lower	Upper
168	100		
139	36.5	30.1	45.1
169	13.8	10.9	16.3

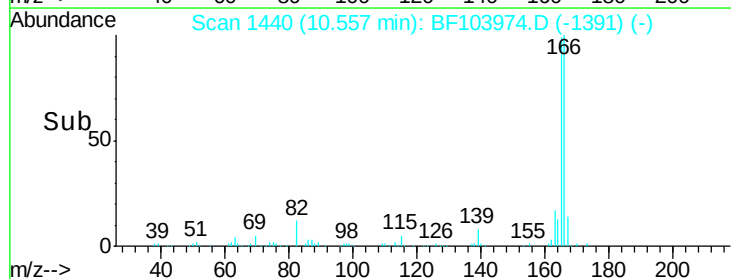
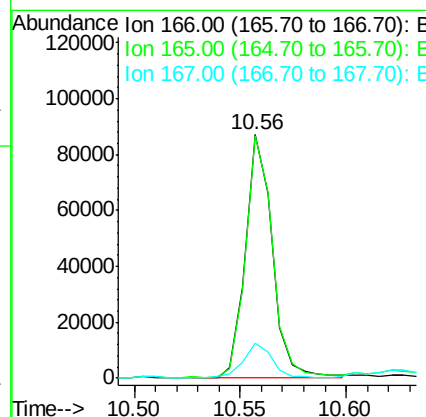
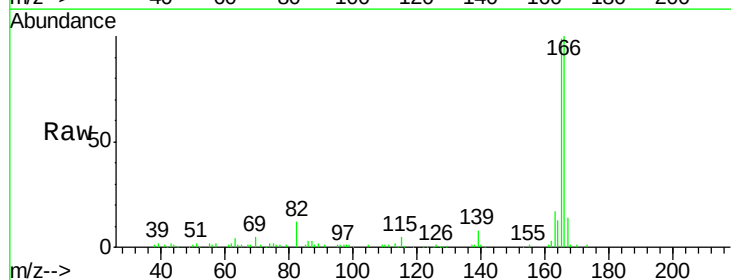
Manual Integrations
APPROVED

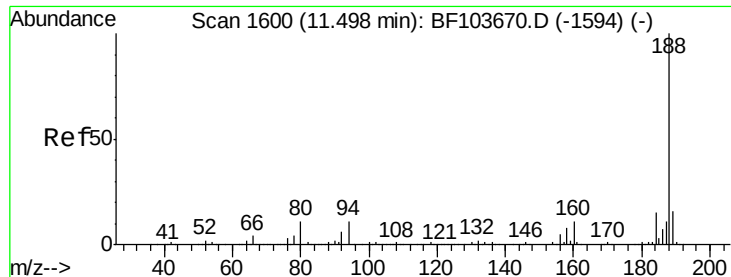
Sohil
3/28/2018 4:54:12 PM



#57
Fluorene
Concen: 4.185 ng
RT: 10.56 min Scan# 1440
Delta R.T. -0.01 min
Lab File: BF103974.D
Acq: 27 Mar 2018 17:17

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.4	79.8	119.8
167	14.1	10.6	16.0





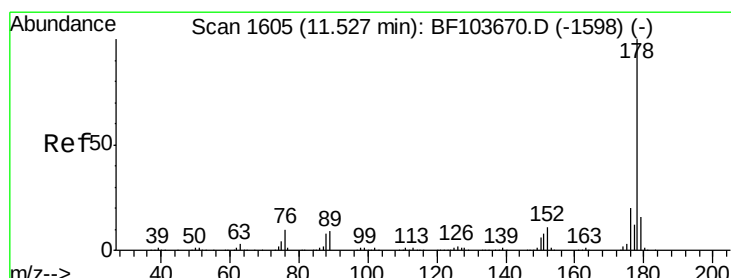
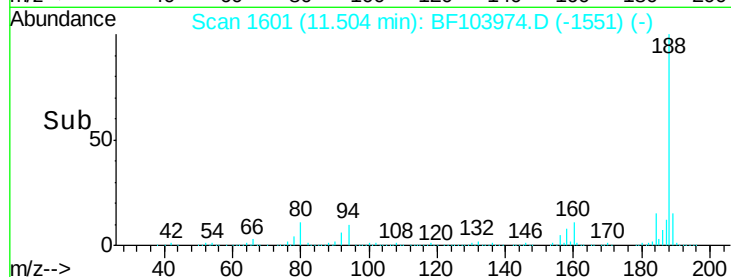
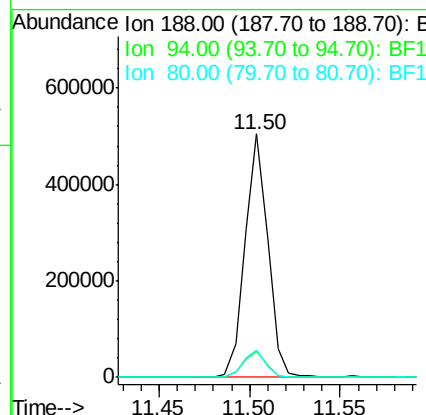
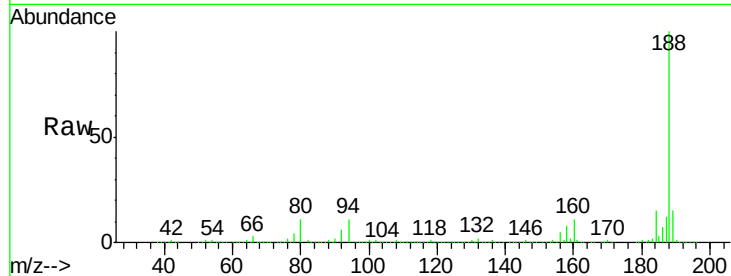
#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.50 min Scan# 1601
 Delta R.T. -0.01 min
 Lab File: BF103974.D
 Acq: 27 Mar 2018 17:17

Instrument :
 BNA_F
 ClientSampleId :
 C1-CARVER-HALL-RCARE

Tot Ion	Ratio	Resp	Lower	Upper
188	100	441211		
94	10.5		8.5	12.7
80	11.5		9.2	13.8

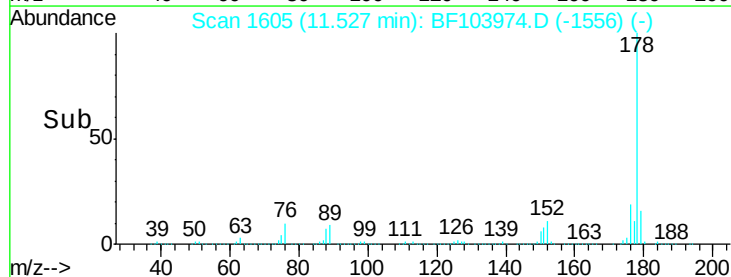
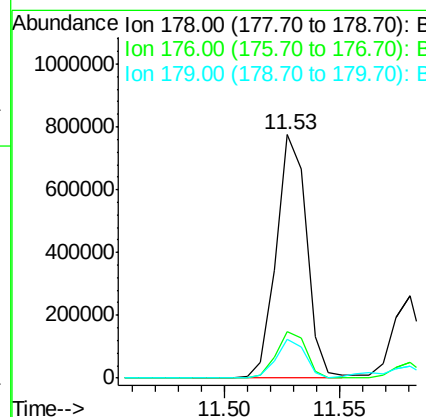
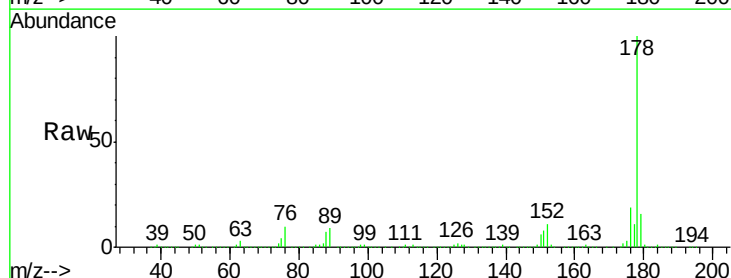
Manual Integrations
 APPROVED

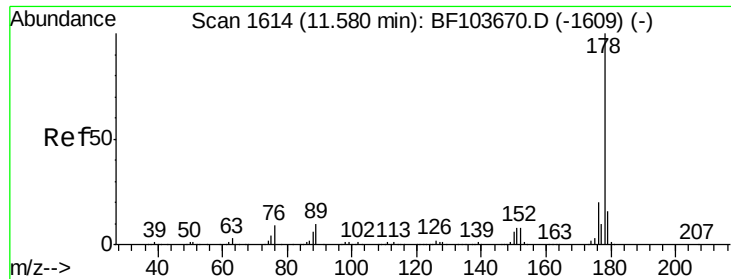
Sohil
 3/28/2018 4:54:12 PM



#70
 Phenanthrene
 Concen: 29.198 ng
 RT: 11.53 min Scan# 1605
 Delta R.T. -0.01 min
 Lab File: BF103974.D
 Acq: 27 Mar 2018 17:17

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	704706		
176	19.3		15.8	23.8
179	15.7		13.0	19.6





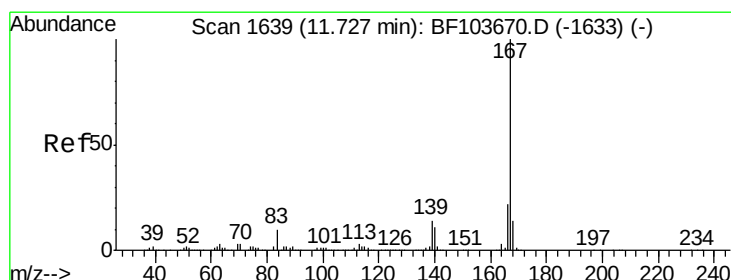
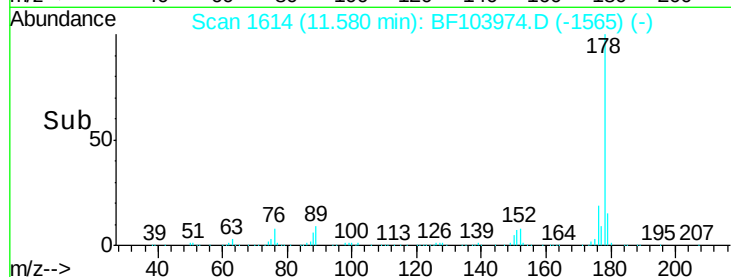
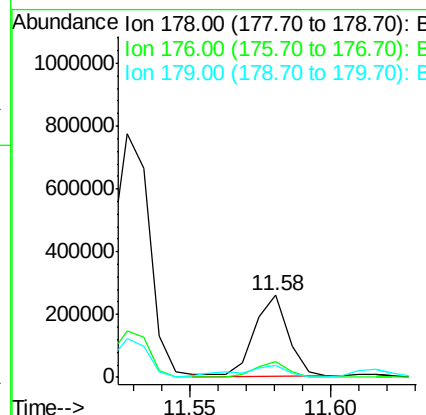
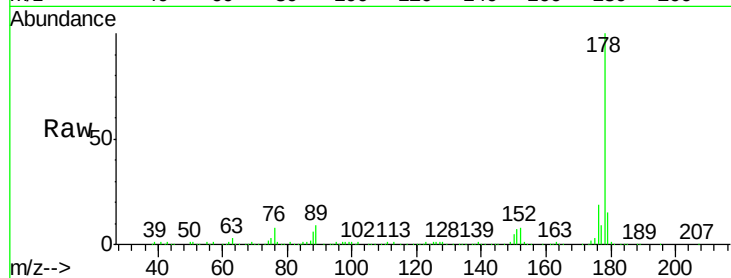
#71
 Anthracene
 Concen: 8.724 ng
 RT: 11.58 min Scan# 1614
 Delta R.T. -0.01 min
 Lab File: BF103974.D
 Acq: 27 Mar 2018 17:17

Instrument :
 BNA_F
 ClientSampleId :
 C1-CARVER-HALL-RCARE

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.4	23.2
179	15.0	12.6	19.0

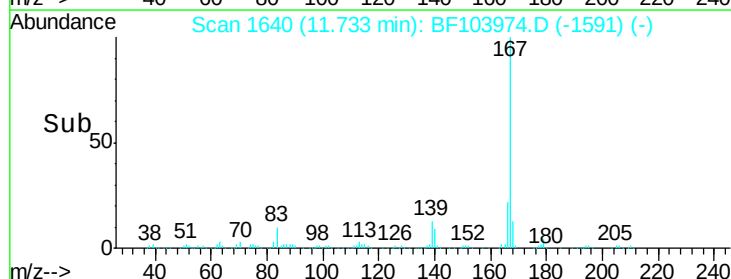
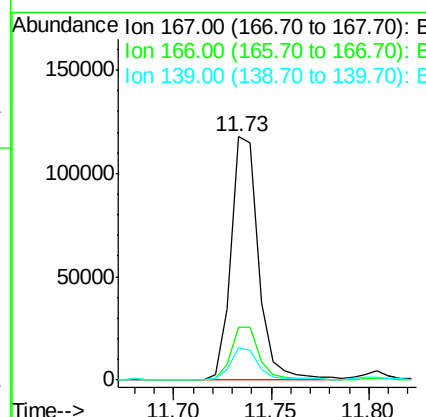
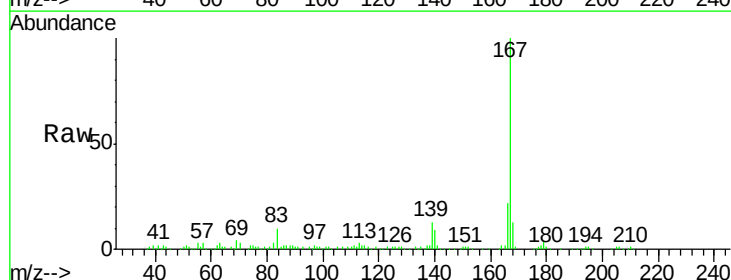
Manual Integrations
 APPROVED

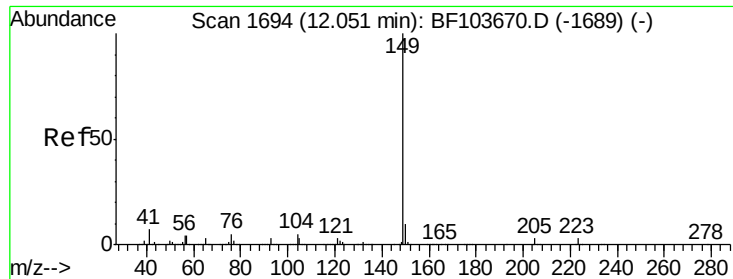
Sohil
 3/28/2018 4:54:12 PM



#72
 Carbazole
 Concen: 4.878 ng
 RT: 11.73 min Scan# 1640
 Delta R.T. -0.01 min
 Lab File: BF103974.D
 Acq: 27 Mar 2018 17:17

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.6	26.4
139	13.3	10.9	16.3





#73

Di-n-butylphthalate

Concen: 2.111 ng

RT: 12.05 min Scan# 1694

Delta R.T. -0.01 min

Lab File: BF103974.D

Acq: 27 Mar 2018 17:17

Instrument :

BNA_F

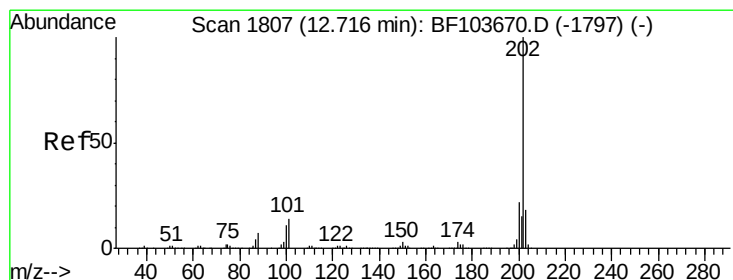
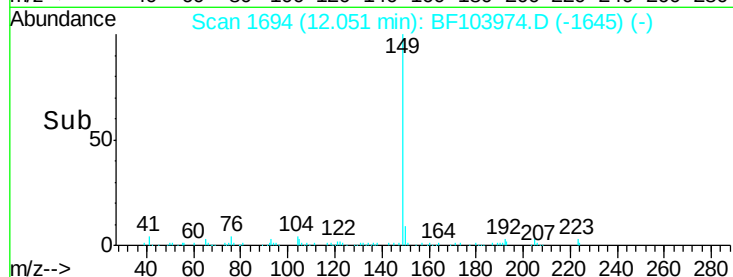
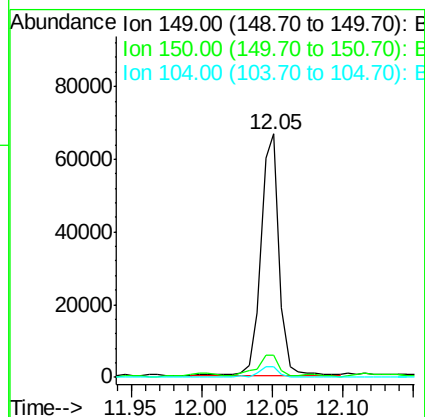
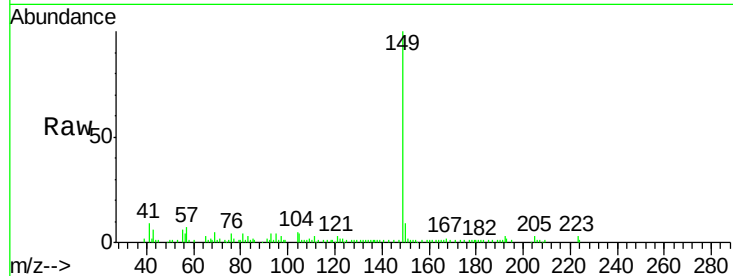
ClientSampleId :

C1-CARVER-HALL-RCARE

Tot Ion:	149	Resp:	60356
Ion Ratio	Lower	Upper	
149	100		
150	9.1	7.8	11.6
104	4.6	3.8	5.8

Manual Integrations
APPROVED

Sohil
3/28/2018 4:54:12 PM



#74

Fluoranthene

Concen: 31.339 ng

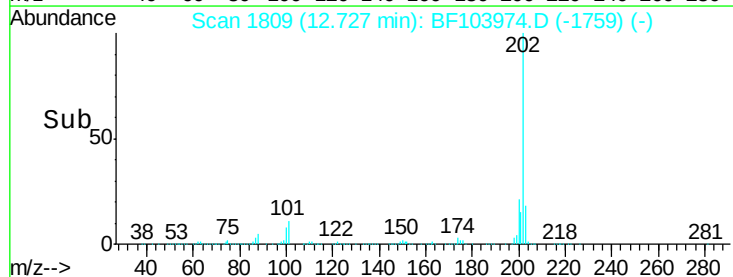
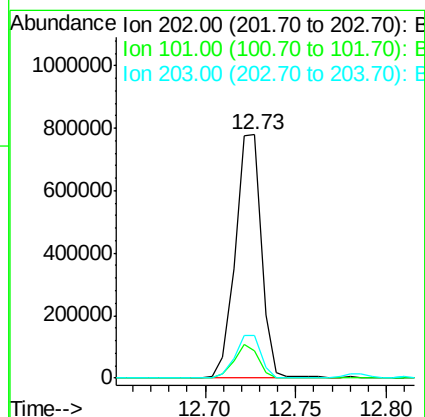
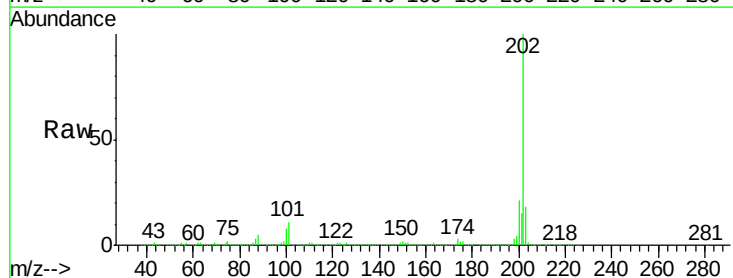
RT: 12.73 min Scan# 1809

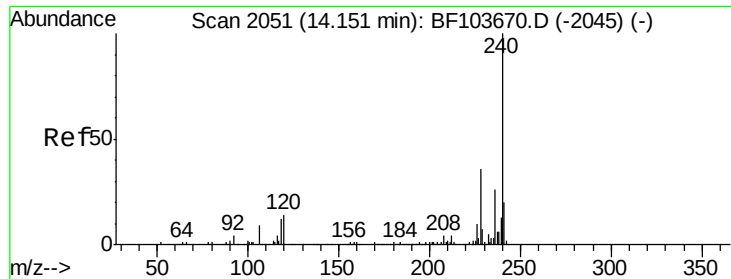
Delta R.T. -0.01 min

Lab File: BF103974.D

Acq: 27 Mar 2018 17:17

Tgt Ion:	202	Resp:	779233
Ion Ratio	Lower	Upper	
202	100		
101	11.3	0.0	34.1
203	17.8	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.16 min Scan# 2052

Delta R.T. -0.01 min

Lab File: BF103974.D

Acq: 27 Mar 2018 17:17

Instrument :

BNA_F

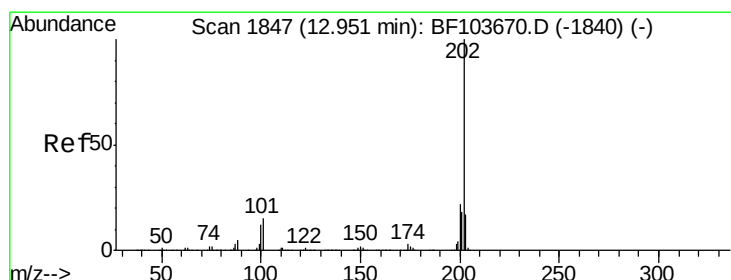
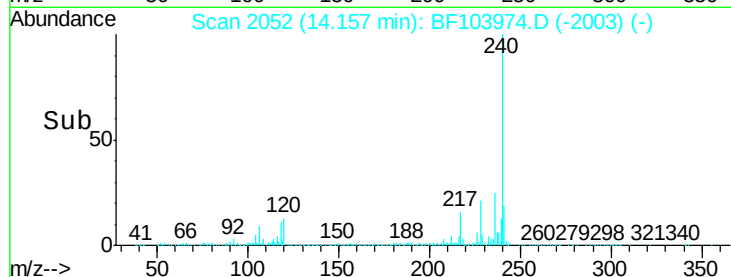
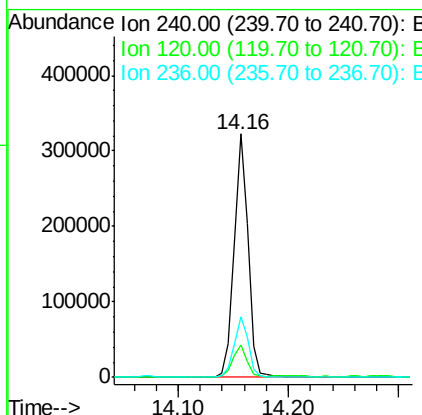
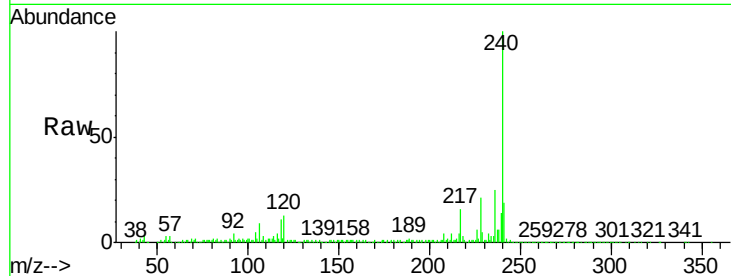
ClientSampleId :

C1-CARVER-HALL-RCARE

Tot Ion:	240	Resp:	287773
Ion Ratio	Lower	Upper	
240	100		
120	13.3	9.5	14.3
236	25.1	20.7	31.1

Manual Integrations
APPROVED

Sohil
3/28/2018 4:54:12 PM



#77

Pyrene

Concen: 30.381 ng

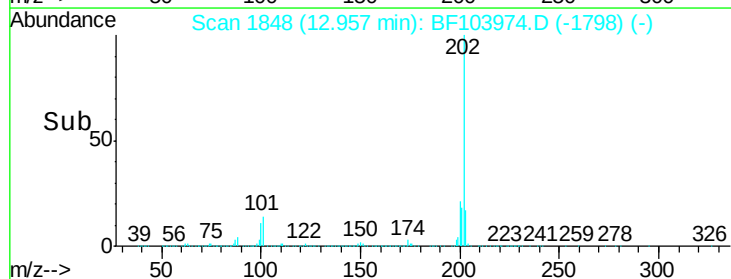
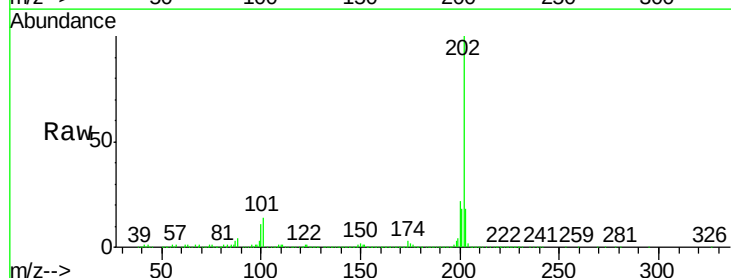
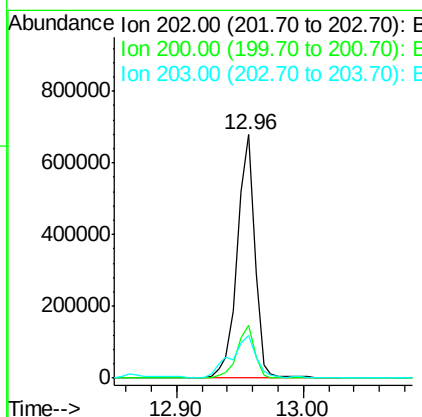
RT: 12.96 min Scan# 1848

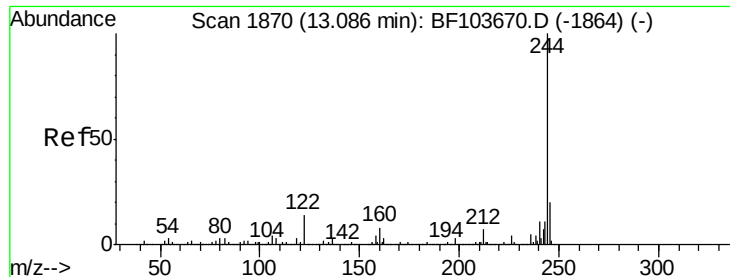
Delta R.T. -0.01 min

Lab File: BF103974.D

Acq: 27 Mar 2018 17:17

Tgt Ion:	202	Resp:	642069
Ion Ratio	Lower	Upper	
202	100		
200	21.5	17.4	26.2
203	17.6	14.3	21.5





#78

Terphenyl-d14

Concen: 26.661 ng

RT: 13.09 min Scan# 1870

Delta R.T. -0.01 min

Lab File: BF103974.D

Acq: 27 Mar 2018 17:17

Instrument :

BNA_F

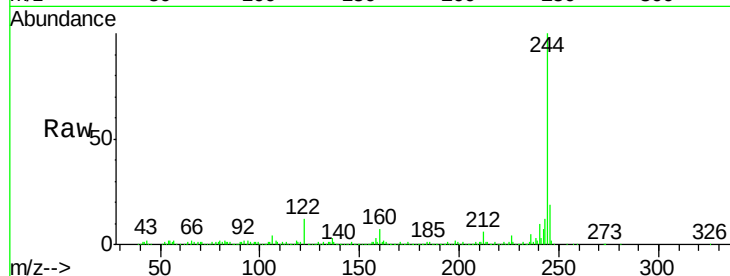
ClientSampleId :

C1-CARVER-HALL-RCARE

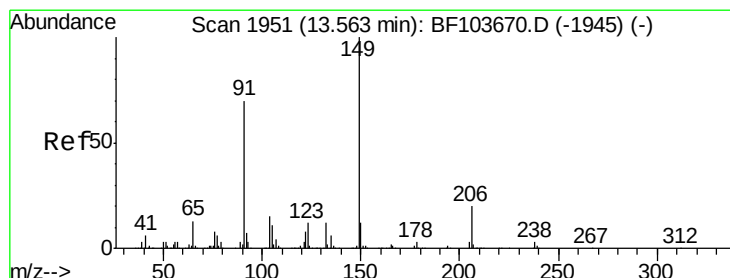
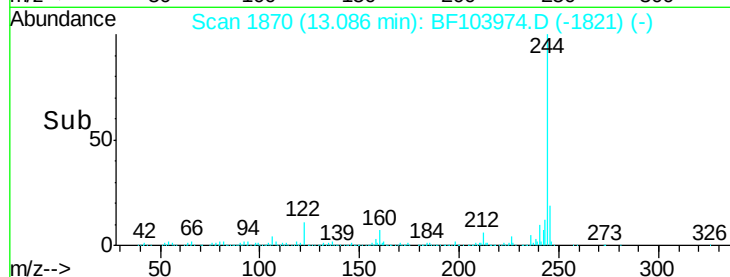
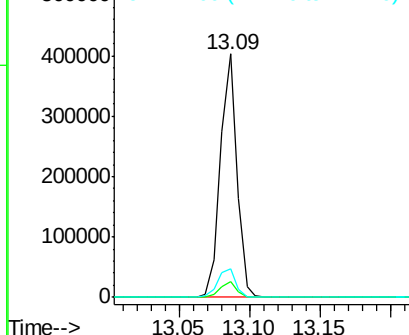
Tot Ion:	244	Resp:	330543
Ion Ratio	Lower	Upper	
244	100		
212	6.4	5.4	8.0
122	11.6	11.0	16.4

Manual Integrations
APPROVED

Sohil
3/28/2018 4:54:12 PM



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



#79

Butylbenzylphthalate

Concen: 11.572 ng

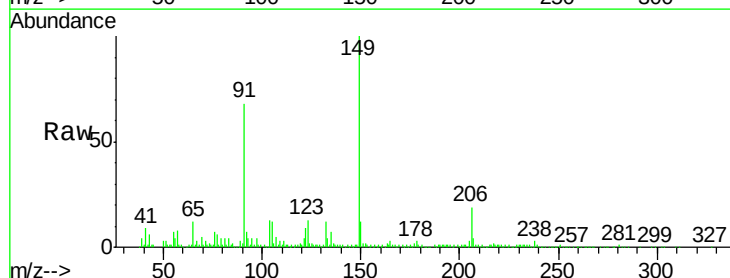
RT: 13.56 min Scan# 1950

Delta R.T. -0.01 min

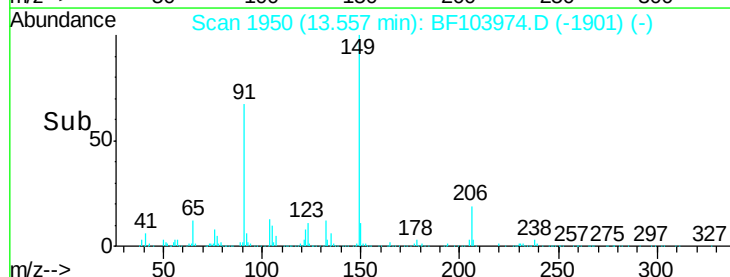
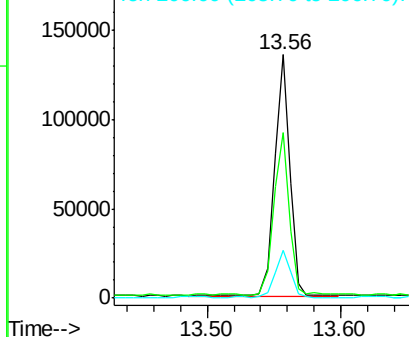
Lab File: BF103974.D

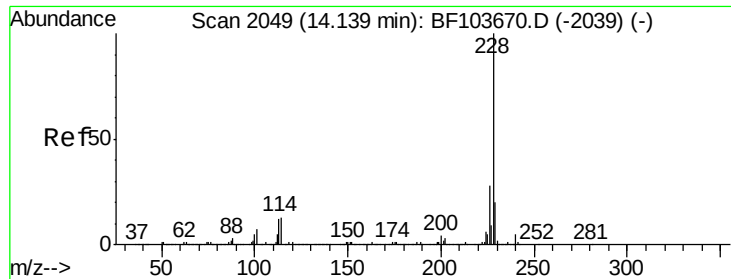
Acq: 27 Mar 2018 17:17

Tgt Ion:	149	Resp:	108352
Ion Ratio	Lower	Upper	
149	100		
91	68.2	56.8	85.2
206	19.4	14.1	21.1



Abundance Ion 149.00 (148.70 to 149.70): E
Ion 91.00 (90.70 to 91.70): BF1
Ion 206.00 (205.70 to 206.70): E





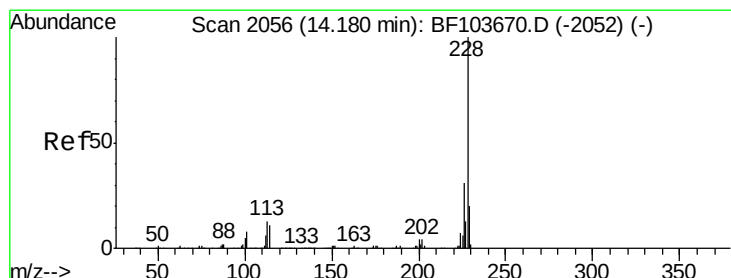
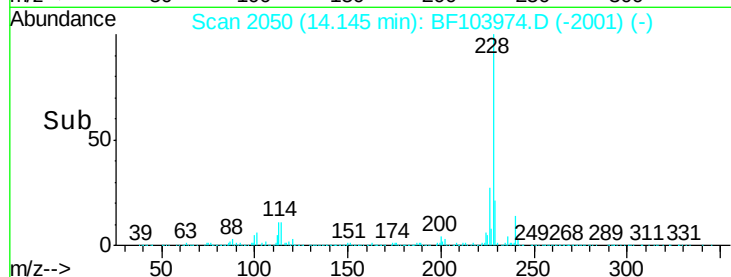
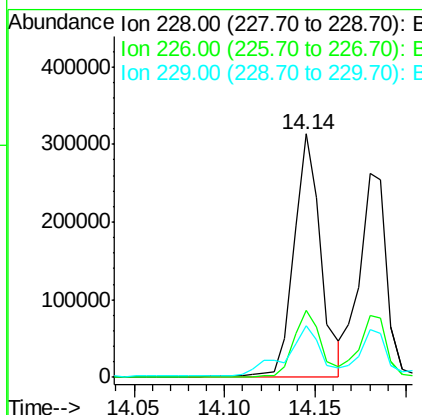
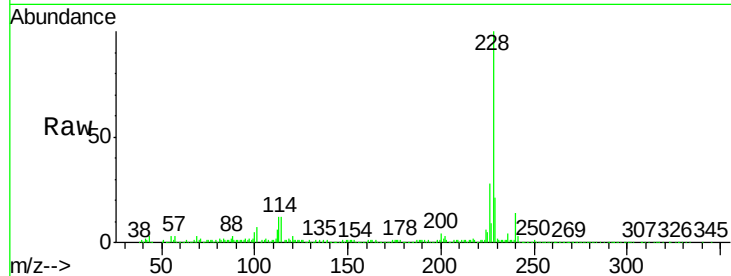
#80
Benzo(a)anthracene
Concen: 17.767 ng
RT: 14.14 min Scan# 2050
Delta R.T. -0.01 min
Lab File: BF103974.D
Acq: 27 Mar 2018 17:17

Instrument :
BNA_F
ClientSampleId :
C1-CARVER-HALL-RCARE

Tot Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.6	33.8
229	21.2	15.8	23.6

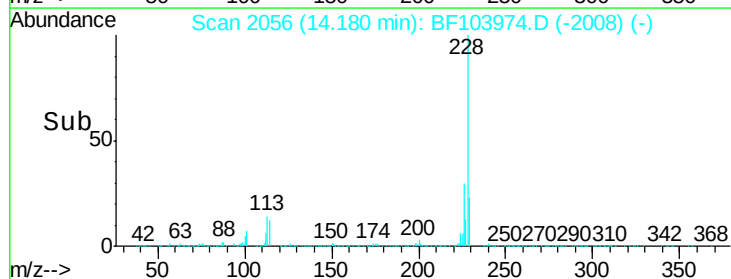
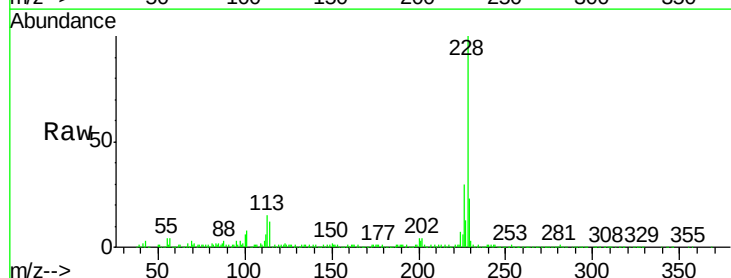
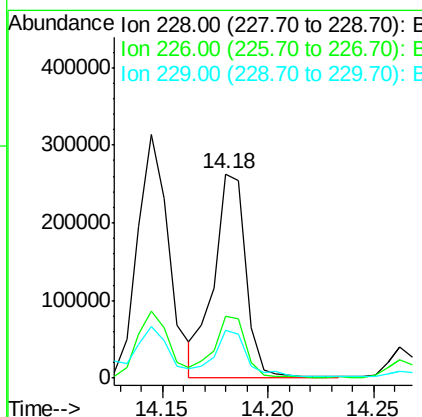
Manual Integrations
APPROVED

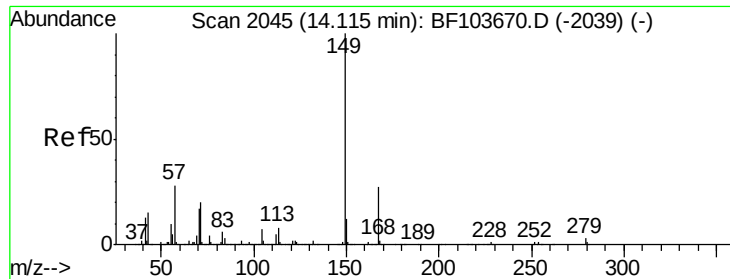
Sohil
3/28/2018 4:54:12 PM



#82
Chrysene
Concen: 15.903 ng
RT: 14.18 min Scan# 2056
Delta R.T. -0.02 min
Lab File: BF103974.D
Acq: 27 Mar 2018 17:17

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.2	25.0	37.6
229	23.3	16.2	24.4





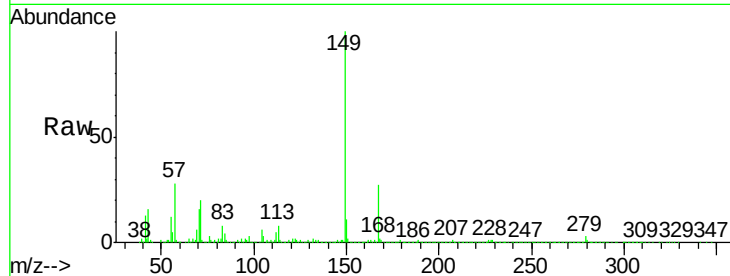
#83
 Bis(2-ethylhexyl)phthalate
 Concen: 23.362 ng
 RT: 14.11 min Scan# 2044
 Delta R.T. -0.01 min
 Lab File: BF103974.D
 Acq: 27 Mar 2018 17:17

Instrument :
 BNA_F
 ClientSampleId :
 C1-CARVER-HALL-RCARE

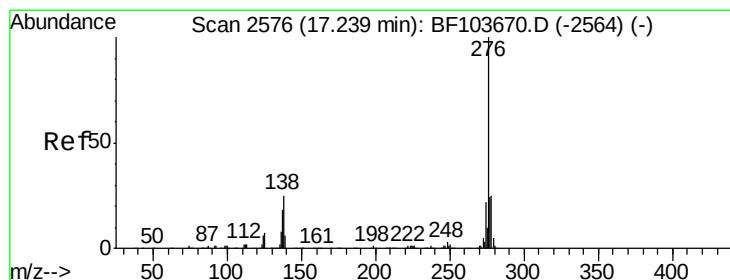
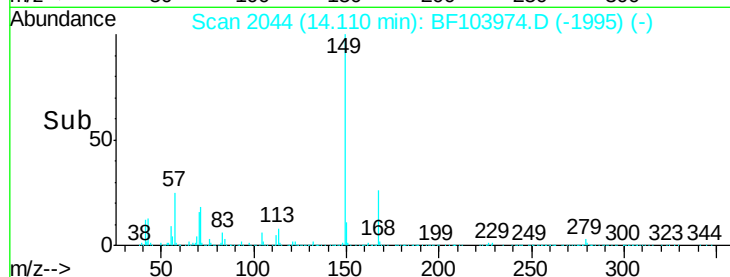
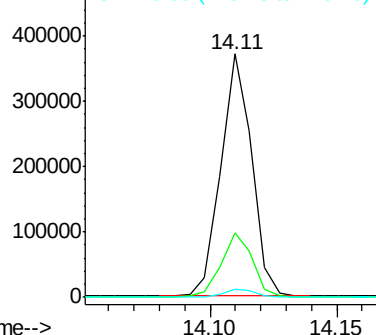
Tot Ion	Ratio	Lower	Upper
149	100		
167	26.5	21.3	31.9
279	3.4	3.0	4.4

Manual Integrations
 APPROVED

Sohil
 3/28/2018 4:54:12 PM



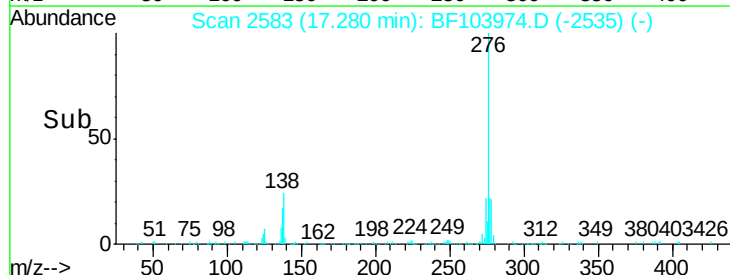
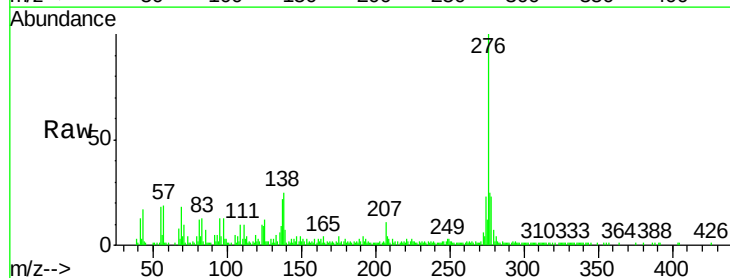
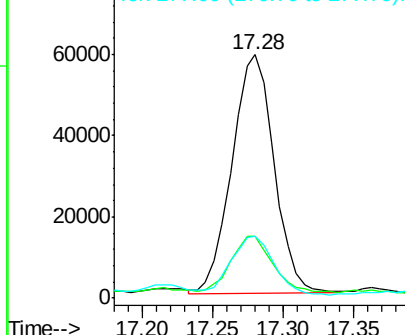
Abundance Ion 149.00 (148.70 to 149.70): E
 Ion 167.00 (166.70 to 167.70): E
 Ion 279.00 (278.70 to 279.70): E

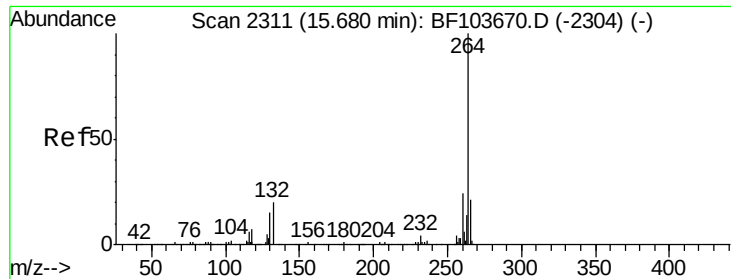


#85
 Indeno(1,2,3-cd)pyrene
 Concen: 8.138 ng
 RT: 17.28 min Scan# 2583
 Delta R.T. -0.02 min
 Lab File: BF103974.D
 Acq: 27 Mar 2018 17:17

Tgt Ion	Ratio	Lower	Upper
276	100		
138	23.4	25.0	37.6#
277	25.1	20.1	30.1

Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E





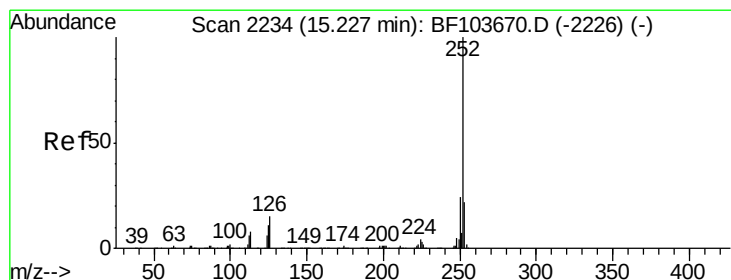
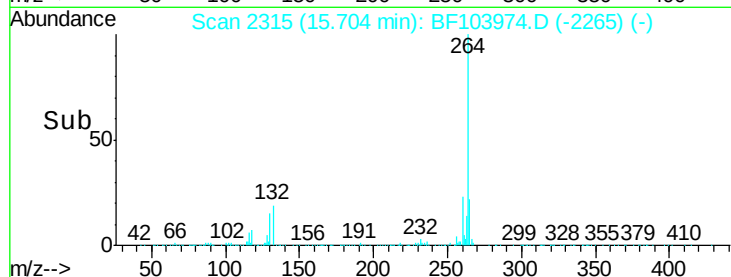
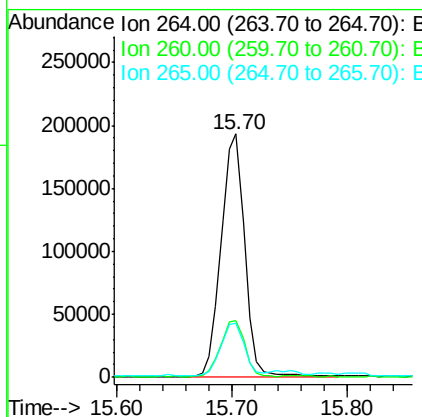
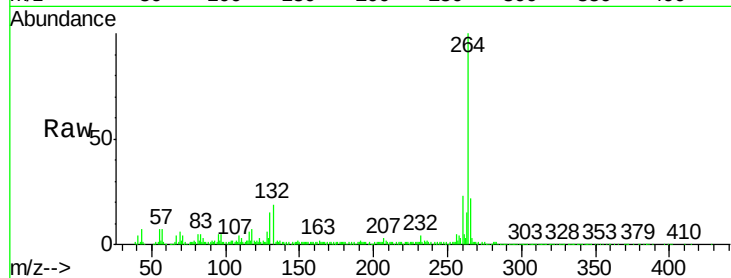
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.70 min Scan# 2315
Delta R.T. -0.01 min
Lab File: BF103974.D
Acq: 27 Mar 2018 17:17

Instrument :
BNA_F
ClientSampleId :
C1-CARVER-HALL-RCARE

Tot Ion:	264	Resp:	272064
Ion Ratio	Lower	Upper	
264	100		
260	23.3	19.2	28.8
265	22.1	17.5	26.3

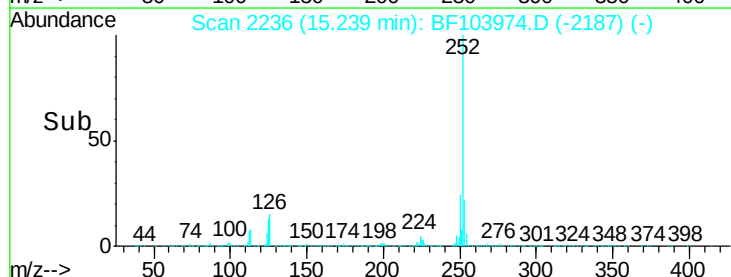
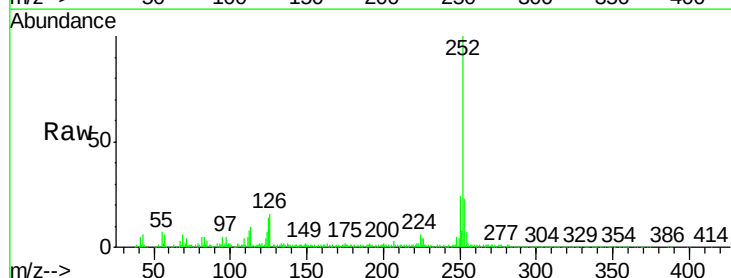
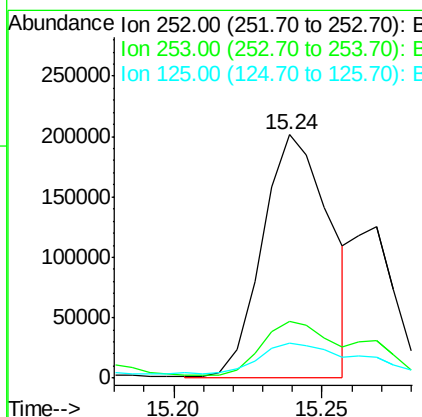
Manual Integrations
APPROVED

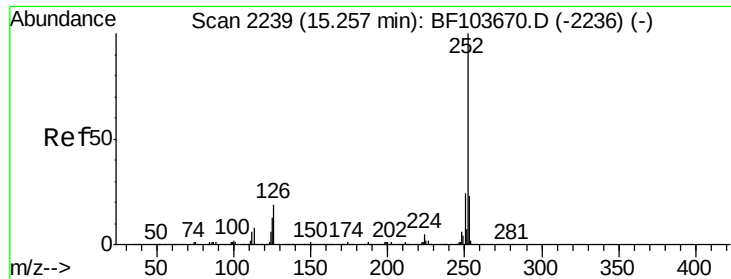
Sohil
3/28/2018 4:54:12 PM



#87
Benzo(b)fluoranthene
Concen: 18.495 ng m
RT: 15.24 min Scan# 2236
Delta R.T. -0.01 min
Lab File: BF103974.D
Acq: 27 Mar 2018 17:17

Tgt Ion:	252	Resp:	317893
Ion Ratio	Lower	Upper	
252	100		
253	23.2	17.0	25.6
125	14.2	9.0	13.6#





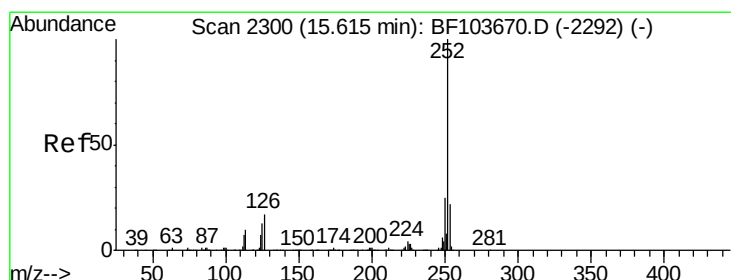
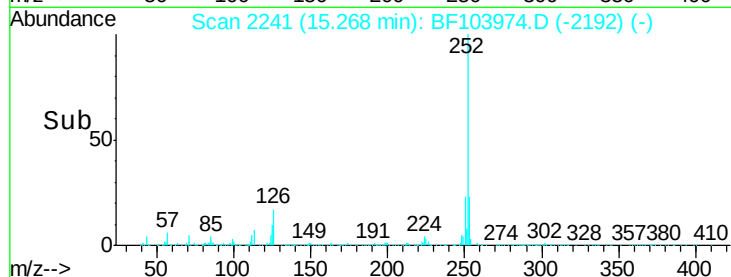
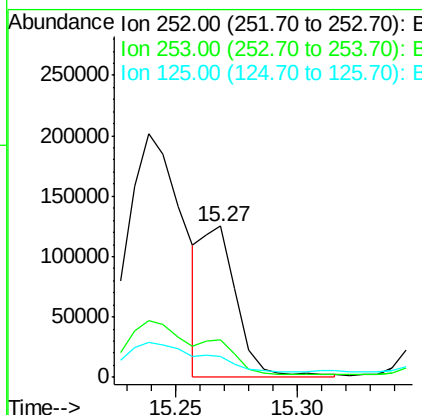
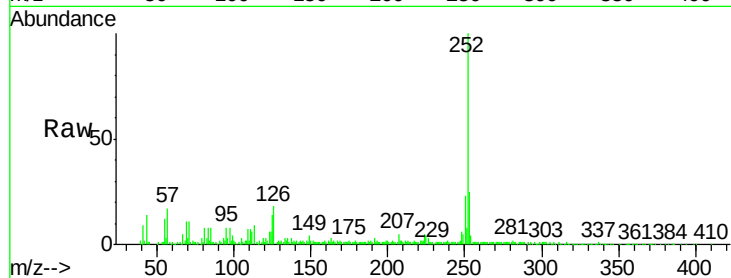
#88
Benzo(k)fluoranthene
Concen: 7.534 ng m
RT: 15.27 min Scan# 2241
Delta R.T. -0.01 min
Lab File: BF103974.D
Acq: 27 Mar 2018 17:17

Instrument :
BNA_F
ClientSampleId :
C1-CARVER-HALL-RCARE

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.8	17.9	26.9
125	13.6	10.2	15.2

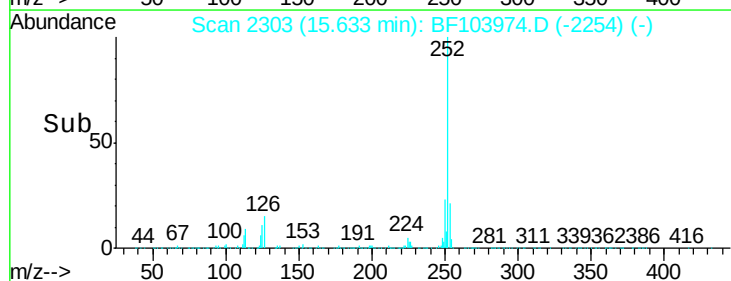
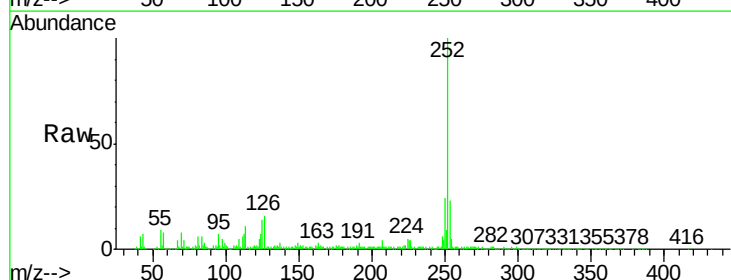
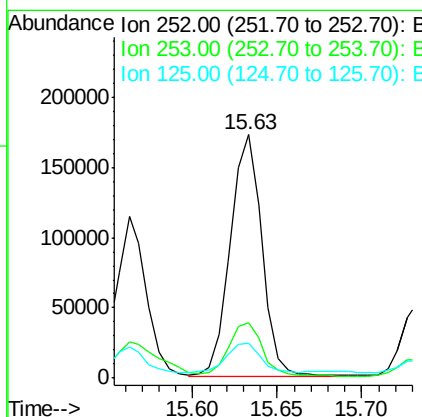
Manual Integrations
APPROVED

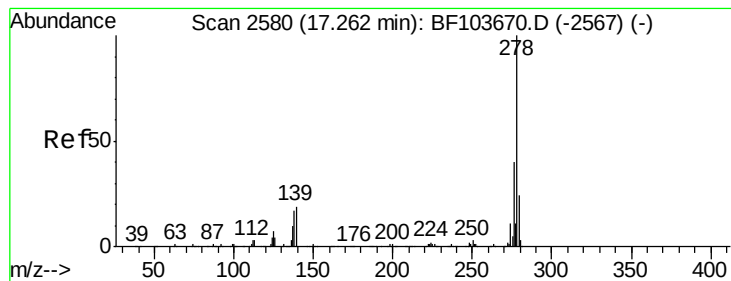
Sohil
3/28/2018 4:54:12 PM



#89
Benzo(a)pyrene
Concen: 14.352 ng
RT: 15.63 min Scan# 2303
Delta R.T. -0.01 min
Lab File: BF103974.D
Acq: 27 Mar 2018 17:17

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.1	25.7
125	14.3	9.8	14.6





#90

Dibenzo(a,h)anthracene

Concen: 2.374 ng

RT: 17.29 min Scan# 2584

Delta R.T. -0.03 min

Lab File: BF103974.D

Acq: 27 Mar 2018 17:17

Instrument :

BNA_F

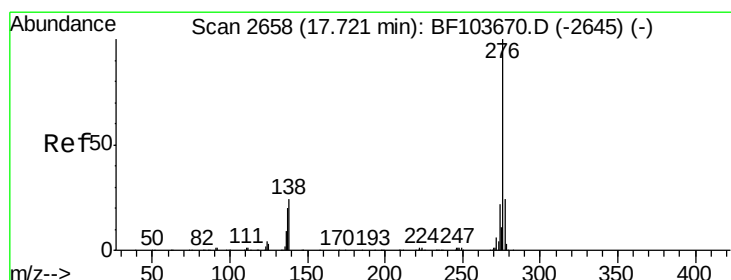
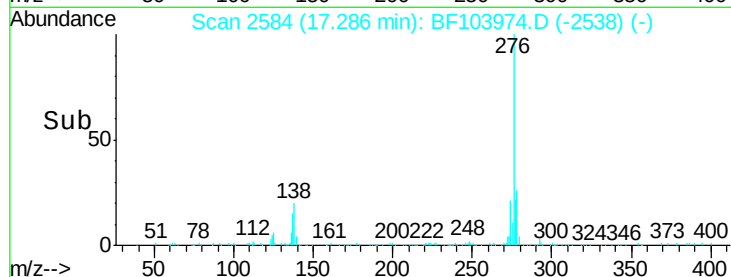
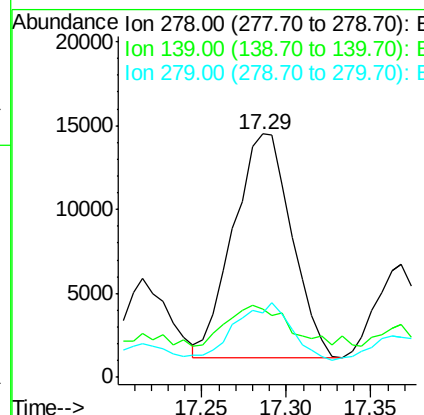
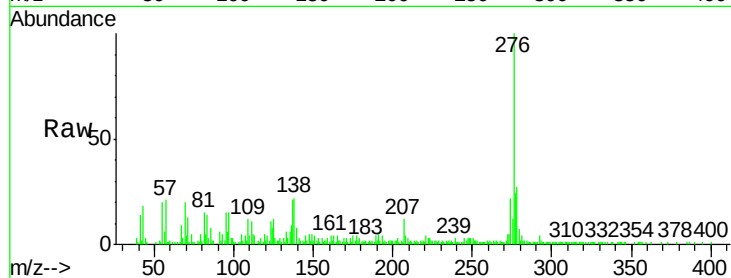
ClientSampleId :

C1-CARVER-HALL-RCARE

Tot Ion:	278	Resp:	32050
Ion Ratio	Lower	Upper	
278	100		
139	27.8	15.9	23.9#
279	26.7	19.0	28.4

Manual Integrations
APPROVED

Sohil
3/28/2018 4:54:12 PM



#91

Benzo(g,h,i)perylene

Concen: 8.084 ng

RT: 17.76 min Scan# 2665

Delta R.T. -0.02 min

Lab File: BF103974.D

Acq: 27 Mar 2018 17:17

Tgt Ion:	276	Resp:	106159
Ion Ratio	Lower	Upper	
276	100		
277	24.3	17.9	26.9
138	27.2	21.8	32.8

